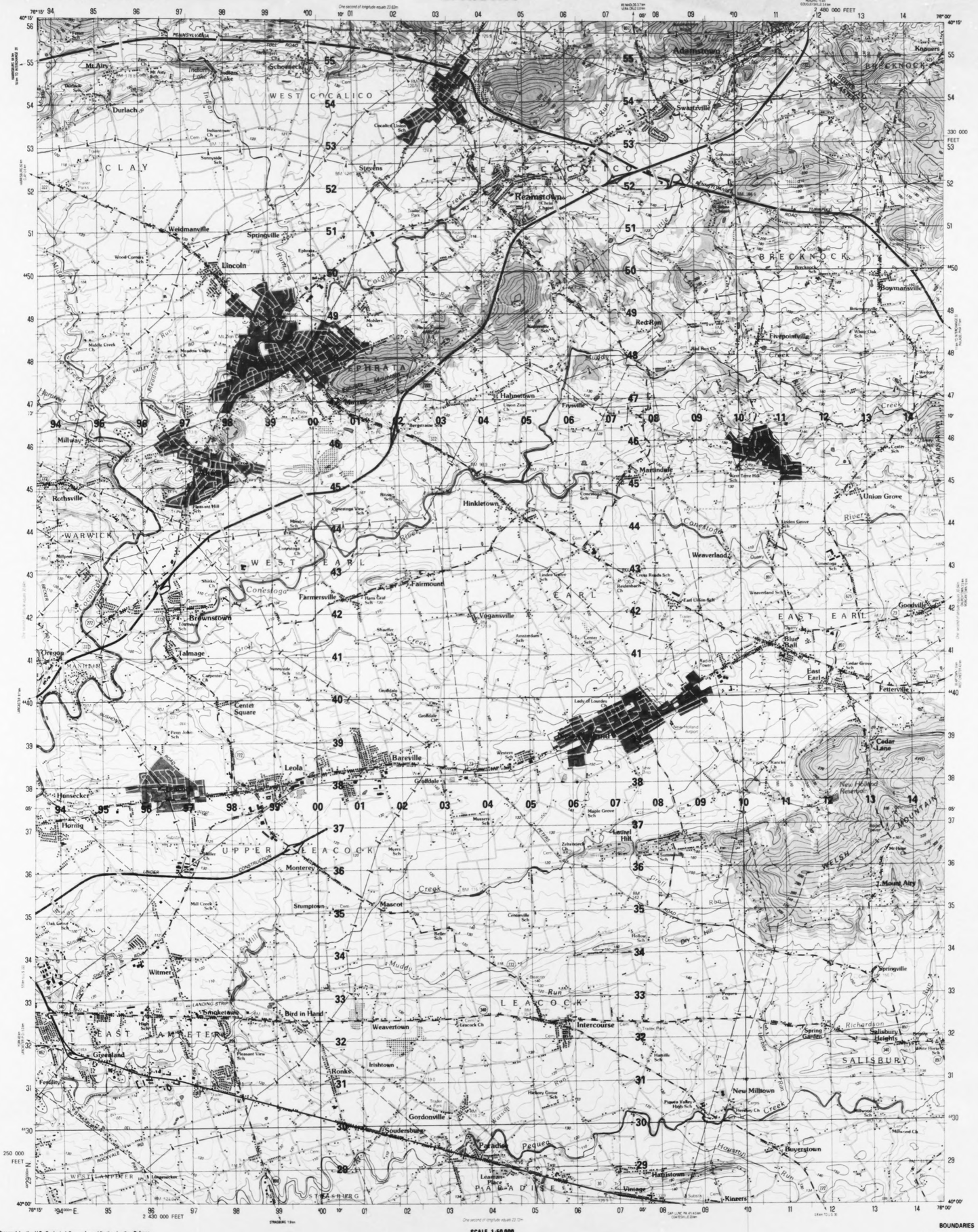
PENNSYLVANIA 1:50 000

EPHRATA

EDITION 6-DMA SERIES V731 SHEET 5764 II



78°15' 94 95 96 97 98 99 00 10' 01 02 03 04 05 06 07 08 09 10 11 12 78°00'

40°15' 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 40°00'

2 480 000 FEET

330 000 FEET

250 000 FEET N

2 430 000 FEET E

One second of longitude equals 23.63m

Prepared by the U.S. Geological Survey for publication by the Defense Mapping Agency Hydrographic/Topographic Center, Washington, D.C.

VEGETATION DATE 1983-84-OTHER INFORMATION 1974-1984.

LEGEND

CAUTION: ALL TELEPHONE AND ELECTRIC SERVICE LINES ARE NOT SHOWN.

A LANE ON THIS MAP IS CONSIDERED TO BE 2.5 METERS WIDE.

IN DEVELOPED AREAS ONLY THROUGH ROADS ARE CLASSIFIED.

THERE MAY BE PRIVATE INHOLDINGS WITHIN THE BOUNDARIES OF THE NATIONAL OR STATE RESERVATIONS SHOWN ON THIS MAP.

ROADS
- Divided highway with median strip
- Primary, all weather, hard surface
- Secondary, all weather, hard surface
- Light duty, all weather, hard or improved surface
- Fair or dry weather, unimproved surface
- Trail
- Route markers: Interstate; Federal; State
- Bridge

RAILROADS (Standard gauge 1.44m = 4'8½")
- Single track
- Multiple track
- Narrow gauge
- Railroad station: Location known; Location unknown
- Car line
- Railroad bridge
- Tunnel: Highway; Railroad

BOUNDARIES
- National, with monument
- State, territory
- County, parish
- Civil township, town
- Incorporated city, village, town
- Reservation: National; State; Military

Power transmission line
Buildings
Structures
Church; School
Power substation
Windmill; Watermill
Well; Tank
Mine shaft
Open pit mine or quarry
Horizontal control station
Bench mark: monumented — BM × 219.2
Bench mark: non-monumented — × 143.9
Spot elevations in meters — • 444
Levees; mins; dikes
Bluffs; cliffs
Woodland
Scattered trees; Scrub
Vineyard; Orchard; plantation
Intermittent lake; Dam; Earthen; Masonry
Stream; Perennial; Intermittent
Marsh; swamp
Small falls; Large falls
Small rapids; Large rapids

SCALE 1:50,000

Meters 1000 500 0 1 2 3 4 5 Kilometers
1 ½ 0 1 2 3 Statute Miles
1 ½ 0 1 2 Nautical Miles

ELEVATIONS IN METERS

CONTOUR INTERVAL 10 METERS

SPHEROID	CLARKE 1866
GRID	1,000-METER UTM ZONE 18 (BLACK NUMBERED LINES) 10,000-FOOT STATE GRID TICKS, PENNSYLVANIA (SOUTH ZONE)
PROJECTION	TRANSVERSE MERCATOR
VERTICAL DATUM	NATIONAL GEODETIC VERTICAL DATUM OF 1929
HORIZONTAL DATUM	1927 NORTH AMERICAN DATUM
CONTROL BY	USGS, NOS/NOAA, AND USCE
PREPARED BY	U. S. GEOLOGICAL SURVEY
PUBLISHED BY	DMAHTC 6-88

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SAMPLE 1,000 METER GRID SQUARE — 100 METER REFERENCE

1. Read large numbers labeling the VERTICAL grid line left of point and estimate tenths (100 meters) from grid line to point: 12 3
2. Read large numbers labeling the HORIZONTAL grid line below point and estimate tenths (100 meters) from grid line to point: 45 6

Example: 123456

100,000 M SQUARE IDENTIFICATION — UV VV

WHEN REPORTING ACROSS A 100,000 METER LINE, PREFIX THE 100,000 METER SQUARE IDENTIFICATION IN WHICH THE POINT LIES.

Example: VV123456

GRID ZONE DESIGNATION — 18T

WHEN REPORTING ACROSS THE GRID ZONE DESIGNATION AREA, PREFIX THE GRID ZONE DESIGNATION.

Example: 18TVV123456

USERS SHOULD REFER CORRECTIONS, ADDITIONS, AND COMMENTS FOR IMPROVING THIS PRODUCT TO: DIRECTOR, DEFENSE MAPPING AGENCY HYDROGRAPHIC/TOPOGRAPHIC CENTER, ATTN: PR, WASHINGTON D.C. 20315-0030.

CONVERSION GRAPH
(1 meter = 3.28 feet)

Meters	Feet
400	1300
300	1000
200	700
100	300
0	0

GRID CONVERGENCE
1°W (13 MILS)
FOR CENTER OF SHEET

1985 GM ANGLE 10° (180 MILS)

TO CONVERT A MAGNETIC AZIMUTH TO A GRID AZIMUTH SUBTRACT GM ANGLE

TO CONVERT A GRID AZIMUTH TO A MAGNETIC AZIMUTH ADD GM ANGLE

SLOPE GUIDE

PERCENTAGE	DEGREE
100%	45°
50%	26.5°
40%	21.8°
30%	16.7°
25%	14°
20%	11.3°
15%	8.5°
10%	5.7°
5%	2.9°
0%	0°

AB - HORIZONTAL DISTANCE BETWEEN CONTOURS
AC - HORIZONTAL DISTANCE BETWEEN INDEX CONTOURS

BOUNDARIES

1 Lancaster County
2 Berks County

ADJOINING SHEETS

5764 IV	5764 I	5864 IV
5764 III	5764 II	5864 III
5763 IV	5763 I	5863 IV

ELEVATION GUIDE

High Medium Low

THIS MAP IS RED-LIGHT READABLE

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DMA STOCK NO. V731X57642

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